

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/027896

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/02 A61P31/04 C12N1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 074 266 A2 (AKZO NOBEL N.V; THE BOARD OF GOVERNORS FOR HIGHER EDUCATION, STATE OF) 7 February 2001 (2001-02-07) page 1, paragraph 1 page 1, paragraph 5 – page 2, paragraph 10 claims	1-11
Y	RITTER A ET AL: "The Pai-associated leuX specific tRNA5(Leu) affects type 1 fimbriation in pathogenic Escherichia coli by control of FimB recombinase expression." MOLECULAR MICROBIOLOGY. SEP 1997, vol. 25, no. 5, September 1997 (1997-09), pages 871-882, XP002316124 ISSN: 0950-382X the whole document	1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

2 February 2005

24/02/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rankin, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/027896

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>NEWMAN J V ET AL: "Role of <i>leuX</i> in <i>Escherichia coli</i> colonization of the streptomycin-treated mouse large intestine." MICROBIAL PATHOGENESIS. NOV 1994, vol. 17, no. 5, November 1994 (1994-11), pages 301-311, XP002316125 ISSN: 0882-401C the whole document</p> <p>-----</p> <p>DATSENKO KIRILL A ET AL: "One-step inactivation of chromosomal genes in <i>Escherichia coli</i> K-12 using PCR products" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 97, no. 12, 6 June 2000 (2000-06-06), pages 6640-6645, XP002210218 ISSN: 0027-8424 the whole document</p> <p>-----</p>	1-11
A		1-11

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/027896

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

a sequence listing
 table(s) related to the sequence listing

b. format of material

in written format
 in computer readable form

c. time of filing/furnishing

contained in the international application as filed
 filed together with the international application in computer readable form
 furnished subsequently to this Authority for the purpose of search

2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

INTERNATIONAL SEARCH REPORT

INFORMATION ON PATENT FAMILY MEMBERS

International Application No

PCT/US2004/027896

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1074266	A2	07-02-2001	US 6764687 B1	20-07-2004
			AU 3935300 A	14-12-2000
			BR 0002602 A	02-01-2001
			CA 2308691 A1	09-12-2000
			HU 0002228 A2	29-06-2002
			JP 2001039890 A	13-02-2001
			MX PA00005734 A	20-08-2002
			NZ 505018 A	27-04-2001
			ZA 200002615 A	08-12-2000